UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/559,889	12/07/2005	Junbiao Zhang	PU030227	2851
24498 7590 12/04/2009 Robert D. Shedd, Patent Operations THOMSON Licensing LLC			EXAMINER	
			NGUYEN, TRONG H	
=	P.O. Box 5312 Princeton, NJ 08543-5312		ART UNIT	PAPER NUMBER
			2436	
			MAIL DATE	DELIVERY MODE
			12/04/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Comments	10/559,889	ZHANG ET AL.				
Office Action Summary	Examiner	Art Unit				
	TRONG NGUYEN	2436				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 19 Oc	ctoher 2009					
<i>i</i> —	, 					
•	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Globbed III decordance with the practice and the parte addyte, 1000 C.D. 11, 400 C.C. 210.						
Disposition of Claims						
4)⊠ Claim(s) <u>1 and 3-14</u> is/are pending in the applic	Claim(s) <u>1 and 3-14</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1 and 3-14</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
· · · <u> </u>	_					
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ acce						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Attachment(s) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. 5) Notice of Informal Patent Application						
Paper No(s)/Mail Date 6)						

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DETAILED ACTION

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicants' submission filed on

- 06/10/2009 has been entered.
- 2. Claims 1, 4, 7, and 8 have been amended.
- 3. Pending claims include **claims 1 and 3-14**.

Response to Arguments

4. Applicants' arguments filed 10/19/2009 have been fully considered but the following argument(s) is/are not persuasive.

Applicants argue that:

i. Jordan fails to cure the defects discussed above in the teaching of Lewis (Lewis fails to teach, show, or suggest "resetting the old encryption key to equal an encryption key being used," as defined in claims 1 and 8). Also, the combination of Lewis and Jordan is inappropriate because Jordan does not teach or suggest any device that even remotely resembles an access point. It has been suggested in the Office Action that the messaging gateway 115 of Jordan is analogous to the access point. However, the analogy is inapt because the messaging gateway of Lewis is not in communication with any user. Instead, it is positioned remote from a user with a

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number of devices interposed along the communication path between the user and the gateway.

ii. Jordan and Lewis lack any teaching, showing, or suggestion for "resetting the old encryption key to equal the current encryption key when decryption using the new encryption key is successful," as defined in claims 1 and 8. There is no express or implied teaching in Jordan that the "base or initial password key" is changed at any time to another value upon successful decryption of the incoming message. The examiner's interpretation of the teaching of Jordan with respect to this limitation is contrary to what the amended claims state. Both the current encryption key and the old encryption key have the same value, namely, the value of the new encryption key.

In response to applicant's argument(s):

i. The examiner respectfully disagrees for the following reasons. Jordan cures the defects i.e. "resetting the old encryption key to equal an encryption key being used" as Jordan discloses methods of changing and synchronizing a password key (Figs. 8-11) wherein after a new password key is randomly generated at a messaging gateway, the current password key becomes the old password key (Pars. 0079-0080) which both a wireless device and the messaging gateway has access to and are using to encrypt and decrypt messages exchange between the two devices (Par. 0080, Fig. 8: step 1120, and Fig. 9: step 1210). Moreover, the combination of Lewis and Jordan is appropriate because Jordan's methods of dynamically changing and synchronizing password keys are used to secure wireless transmissions in a wireless communication

system (Par. 0009). Jordan's methods can be implemented by wireless devices (Pars. 0078, 0084, and 0089). It is reasonable to expect that the wireless communication system to include at least one access point as a wireless device. Thus, it is appropriate to incorporate Jordan's methods of dynamically changing and synchronizing in Lewis's method to improve security level in Lewis's wireless network. In addition, the messaging gateway115 of Jordan is in communication with at least one user (Fig. 1) and it appears that applicants also admit this by stating "along the communication path between the user and the gateway." Also, it should be noted that what applicants are arguing (the messaging gateway of Lewis is not in communication with any user. Instead, it is positioned remote from a user with a number of devices interposed along the communication path between the user and the gateway) are not recited in the claims.

ii. The examiner respectfully disagrees. Jordan discloses methods of changing and synchronizing a password key (Figs. 8-11) wherein after a new password key (first new password key) is randomly generated at a messaging gateway, the current password key becomes the old password key (Pars. 0079-0080) which both a wireless device and the messaging gateway has access to and are using to encrypt and decrypt messages exchange between the two devices (Par. 0080, Fig. 8: step 1120, and Fig. 9: step 1210). Moreover, Jordan discloses that subsequently, when another new password key (second new password key) is randomly generated at the messaging gateway, the current password key (which was previously reset to the value of the new password key) becomes the old password key (Par. 0083). Thus, during the time interval of immediately after the second new password key is randomly generated at the

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messaging gateway and immediately before the second new password key becomes the current password key, both the current password key and the old password key have the same value which is the value of the first new password key.

Claim Objections

5. **Claims 10-11** are objected to because of the following informalities:

Claims 10 and 11 recite "capable of" on lines 2 which should be configured to/for since language that suggests or makes optional but does not require steps to be performed or does not limit a claim to a particular structure does not limit the scope of a claim or claim limitation. See also MPEP § 2111.04.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 4 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. There is insufficient antecedent basis for "the received packet" recited on line 3 of claim 4.

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Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

8. Claims 1, 7-8 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lewis US 6,526,506 (hereinafter "Lewis") in view of Jordan et al. US 2004/0081320 (hereinafter "Jordan").

Regarding <u>claim 1</u>, Lewis discloses a key synchronization method for a wireless network comprising: as [the access point generates a new ENCRYPT key to be use as the current ENCRYPT key (Col. 12, lines 43-44), transmits the new ENCRYPT key to the mobile terminal (Col. 12, lines 44-46), and determines if the message received from the mobile terminal has been encrypted using the current ENCRYPT key (Col. 12, line 67-Col. 13, lines 1-2)]

setting a current encryption key [ENCRYPT key (Col. 6, line 46)] and an old encryption key [previous ENCRYPT key (Col. 6, line 57)] at an access point [combination of key distribution server 76 and access point 54 (Fig. 1, Col. 6, line 55)] in the wireless network; [wireless network (Col. 1, line 26)]

generating a new encryption key at the access point; as [The key distribution server 76 further includes an optional encryption key generator 150. In the exemplary embodiment, the generator 150 periodically generates a new ENCRYPT key which is

provided to the access point 54 in order to be used in communicating with the mobile terminal 66 (Col. 9, lines 41-47)]

resetting the current encryption key to equal the newly generated encryption key, as [since the access point is instructed to use a different or new ENCRYPT key (Col. 12, lines 43-44), the new ENCRYPT key now becomes the current encryption key]

communicating the newly generated encryption key to the station in an encrypted form using the old encryption key; as [The access point communicates the new ENCRYPT key using the previous ENCRYPT key (Col. 12, lines 44-46)]

indicating a decryption failure for a data frame received from the station when the encryption key used by the station does not match the current encryption key as [Fig. 7, access point determines if the message from received from the mobile terminal is encrypted with the current ENCRYPT key, if not, the access point follows appropriate actions described in steps 226-234]

Lewis does not specifically disclose resetting the old encryption key to equal an encryption key being used by a station in communication with the access point and wherein a data frame that failed to decrypt using the current encryption key is decrypted by said access point using the old encryption key and resetting the old encryption key to equal the current encryption key when decryption using the new encryption key is successful.

However, Jordan discloses methods of changing and synchronizing a password key (Figs. 8-11) wherein after a new password key (first new password key) is randomly

generated at a messaging gateway, the current password key becomes the old password key (Pars. 0079-0080) which both a wireless device and the messaging gateway has access to and are using to encrypt and decrypt messages exchange between the two devices (Par. 0080, Fig. 8: step 1120, and Fig. 9: step 1210). Furthermore, Jordan discloses that when there is a transmit or receive error, the messaging gateway reverts back to a password key that is prior to the most recent updated password key (i.e. the old encryption key) to decrypt a message received from the wireless device after unsuccessfully decrypting the message using the updated password key (i.e. the current password key) (Figs. 10-11, Pars. 0089 and 0093). Moreover, Jordan discloses that subsequently, when another new password key (second new password key) is randomly generated at the messaging gateway, the current password key (which was previously reset to the value of the new password key) becomes the old password key (Par. 0083). Thus, during the time interval of immediately after the second new password key is randomly generated at the messaging gateway and immediately before the second new password key becomes the current password key, both the current password key and the old password key have the same value which is the value of the first new password key.

Jordan and Lewis are analogous art because they are in the same field of endeavor of secure data communication in a wireless network.

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify Lewis's invention by resetting the old encryption key to equal an encryption key being used by a station in communication with the access point and decrypting, a data frame that failed to decrypt using the current encryption key, by said access point using the old encryption key, and resetting the old encryption key to equal the current encryption key when decryption using the new encryption key is successful as described by Jordan for the purpose of increasing security level in wireless communications through dynamically changing and synchronizing password keys (Jordan, Par. 0009).

Regarding claim 7, Lewis-Jordan combination further discloses the method according to claim 1, wherein said setting is performed by the access point for each station in the wireless network as [see rejection to claim 1 above and Lewis's Fig. 1].

Regarding <u>claim 8</u>, Lewis discloses a key synchronization system for a wireless network comprising: [the access point generates a new ENCRYPT key to be use as the current ENCRYPT key (Col. 12, lines 43-44), transmits the new ENCRYPT key to the mobile terminal (Col. 12, lines 44-46), and determines if the message received from the mobile terminal has been encrypted using the current ENCRYPT key (Col. 12, line 67-Col. 13, lines 1-2)]

at least one station in the wireless network; ["The wireless communication system 50 also includes one or more mobile terminals 66" (Fig. 1, Col. 4, lines 28-29)]

at least one access point in the wireless network [combination of access points 54 and key distribution server 76 (Fig. 1)] maintaining an old encryption key

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[previous ENCRYPT key (Col. 6, line 57). Note that the access point does maintain an old encryption key (i.e. previous ENCRYPT key) since the previous ENCRYPT key is used by the access point to provide the mobile terminal with a new ENCRYPT key (Col. 6, lines 55-57)] and a new encryption key through a key rotation interval for each of said at least one station [Periodically, the access point may be instructed to use a different or new ENCRYPT key (Col. 12, lines 43-44) and the new ENCRYPT key is transmitted to the mobile terminal (Col. 12, lines 44-46)] said access point using said new encryption key when a first data frame correctly encrypted with said new encryption key is received from said at least one station [If the message is encrypted using the current ENCRYPT key as determined in step 222, the access point decrypts the message (Lewis, Fig. 7, Col. 13, lines 8-9). Furthermore, by disclosing when it is determined that the message received is not encrypted using the current ENCRYT key, the access point does not decrypt the message but proceeds to step 226 (Lewis, Fig. 7, Col. 13, lines 13-15, 34-35), Lewis also discloses the access point starts using the new ENCRYPT key when a first message correctly encrypted under the new ENCRYPT key is received from the mobile terminal]

Lewis does not specifically disclose using said old encryption key when decryption of a data frame received from said at least one station fails due to mismatched keys, and said access point resetting the old encryption key to equal the new encryption key when decryption with the new encryption key is successful.

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However, Jordan discloses methods of changing and synchronizing a password key (Figs. 8-11) wherein after a new password key (first new password key) is randomly generated at a messaging gateway, the current password key becomes the old password key (Pars. 0079-0080) which both a wireless device and the messaging gateway has access to and are using to encrypt and decrypt messages exchange between the two devices (Par. 0080, Fig. 8: step 1120, and Fig. 9: step 1210). Furthermore, Jordan discloses that when there is a transmit or receive error, the messaging gateway reverts back to a password key that is prior to the most recent updated password key (i.e. the old encryption key) to decrypt a message received from the wireless device after unsuccessfully decrypting the message using the updated password key (i.e. the current password key) (Figs. 10-11, Pars. 0089 and 0093). Moreover, Jordan discloses that subsequently, when another new password key (second new password key) is randomly generated at the messaging gateway, the current password key (which was previously reset to the value of the first new password key) becomes the old password key (Par. 0083). Thus, during the time interval of immediately after the second new password key is randomly generated at the messaging gateway and immediately before the second new password key becomes the current password key, both the current password key and the old password key have the same value which is the value of the first new password key.

Jordan and Lewis are analogous art because they are in the same field of endeavor of secure data communication in a wireless network.

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify Lewis's invention by using said old encryption key when decryption of a data frame received from said at least one station fails due to mismatched keys, and resetting, by said access point, the old encryption key to equal the new encryption key when decryption with the new encryption key is successful as described by Jordan for the purpose of increasing security level in wireless communications through dynamically changing and synchronizing password keys (Jordan, Par. 0009).

Regarding <u>claim 13</u>, Lewis-Jordan combination further discloses the method according to claim 1, wherein the new encryption key is generated at the access point upon expiration of a key refresh interval as [Periodically, the access point may be instructed to use a different or new ENCRYPT key (Lewis, Col. 12, lines 43-44)].

9. Claims 3, 4, 9 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lewis in view of Jordan and further in view of Loc et al. US 7,293,289 (hereinafter "Loc").

Regarding claim 3, Lewis-Jordan combination further discloses the method according to claim 1, further comprising: decrypting received data frames at the access point using the old encryption key as [see rejection to claim 1 above] but does not specifically disclose the received data frames are associated with said out-of-sync counter and incrementing an out-of-sync counter in the access point

when said decryption failure occurs due to the encryption key used by the station not matching the current encryption key.

However, Loc discloses a method for detecting a security breach in a network wherein "Each time a client 108 fails to successfully decrypt a packet, the encryption failure counter is incremented" (Fig. 5, Col. 6, lines 59-61). Furthermore, Jordan discloses that when there is a transmit or receive error, the messaging gateway reverts back to a password key that is prior to the most recent updated password key (i.e. the old encryption key) to decrypt a message received from the wireless device after unsuccessfully decrypting the message using the updated password key (i.e. the current password key) (Figs. 10-11, Pars. 0089 and 0093).

Loc, Lewis, and Jordan are analogous art because they are in the same field of secure data communication in a wireless network.

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the invention of Lewis-Jordan by incrementing an out-of-sync counter in the access point when said decryption failure occurs due to the encryption key used by the station not matching the current encryption key and decrypting received data frames associated with said out-of-sync counter as described by Loc in order to detect a security breach in a network (Loc, Col. 1, lines 22-23) and resynchronizing password keys (Jordan, Par. 0087).

Regarding <u>claim 4</u>, Lewis-Jordan combination further discloses the method according to claim 1, further comprising:

decrypting, using the new encryption key, the received data frame from the station when the access point determines the station sending the received packet is using the new encryption key, said access point starting to use the new encryption key when a first data frame correctly encrypted with the new encryption key is received from the station; as [If the message is encrypted using the current ENCRYPT key as determined in step 222, the access point 54 decrypts the message (Lewis, Fig. 7, Col. 13, lines 8-9). Furthermore, by disclosing when it is determined that the message received is not encrypted using the current ENCRYT key, the access point does not decrypt the message but proceeds to step 226 (Lewis, Fig. 7, Col. 13, lines 13-15, 34-35), Lewis also makes it obvious that the access point starts using the new ENCRYPT key when a first message is correctly encrypted under the new ENCRYPT key by the mobile terminal. Moreover, Jordan also discloses this limitation on Figs. 10-11, Pars. 0088-0089] but does not specifically disclose re-setting an out-of-sync counter to zero upon successful decryption.

However, Loc discloses a method for detecting a security breach in a network wherein "Each time client 108 successfully decrypts a packet, the encryption failure counter is reset to zero" (Loc, Col. 6, lines 57-69).

Loc, Lewis, and Jordan are analogous art because they are in the same field of secure data communication in a wireless network.

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the invention of Lewis-Jordan by re-setting an out-of-sync counter to zero upon successful decryption as described by Loc in order to detect a security breach in a network (Loc, Col. 1, lines 22-23).

Regarding <u>claim 9</u>, Lewis-Jordan combination further discloses the <u>key</u> synchronization system according to claim 8 but does not specifically disclose wherein said at least one access point further maintains an out-of-sync counter to track the number of packets where decryption fails due to mismatched keys.

However, Loc discloses a method for detecting a security breach in a network wherein "Each time client 108 fails to successfully decrypt a packet, the encryption failure counter is incremented" (Fig. 5, Col. 6, lines 59-61).

Loc, Jordan, and Lewis are analogous art because they are in the same field of secure data communication in a wireless network.

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the invention of Lewis-Jordan by maintaining, by said at least one access point, an out-of-sync counter to track the number of packets where decryption fails due to mismatched keys as described by Loc in order to detect a security breach in a network (Loc, Col. 1, lines 22-23).

Regarding claim 14, Lewis-Jordan-Loc combination further discloses the method according to claim 3, wherein said out-of-sync counter comprises a predetermined threshold that if exceeded causes communication to terminate between the access point and a source of the data frames causing the threshold

of said out-of-sync counter to be exceeded as ["When the encryption failure counter reaches a predetermined threshold n (that is, when n consecutive failures have occurred) (step 512), client 108 sends an alert packet to access point" (Loc, Col. 6, lines 61-65). Furthermore, upon receiving the alert of a security breach, the access point "responds by immediately removing the MAC address of client 108 from its list of authorized clients, by ceasing to send any packets to the MAC address of client 108, and by discarding all packets that are received from the MAC address of client 108" (Loc, Col. 6, lines 5-9)]

10. Claims 5-6 and 10-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lewis in view of Jordan and further in view of Kelem et al. US 6,118,869 (hereinafter "Kelem").

Regarding <u>claim 5</u>, Lewis-Jordan combination discloses the method according to <u>claim 1</u> but does not specifically disclose <u>further comprising setting the old encryption key equal to a null value</u>, <u>said null value representing a no encryption mode</u>.

However, Kelem discloses if decryption is not desired, a decryption key value of 0 is chosen (Col. 4, lines 18-20). By disclosing setting a decryption key to a null value or 0 when no decryption is desired, Kelem also makes it obvious to set an encryption key to a null value when no encryption is desired.

Kelem, Lewis, and Jordan are analogous art because they are in the same field of endeavor of encryption and/or decryption key protection.

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the invention of Lewis- Jordan by setting the old key equal to a null value, said null value representing a no encryption mode as described by Kelem in order to modify the key thereby providing a high level of security (Kelem, Col. 2, lines 10-14).

Regarding <u>claim 6</u>, Lewis- Jordan combination discloses the method according to claim 1 but does not specifically disclose further comprising setting the current encryption key and the old encryption key to a null value, said null value representing a no encryption mode.

However, Kelem discloses if decryption is not desired, a decryption key value of 0 is chosen (Col. 4, lines 18-20). By disclosing setting a decryption key to a null value or 0 when no decryption is desired, Kelem also makes it obvious to set an encryption key to a null value when no encryption is desired.

Kelem, Lewis, and Jordan are analogous art because they are in the same field of endeavor of encryption and/or decryption key protection.

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the invention of Lewis-Jordan by setting the current encryption key and the old encryption key to a null value, said null value representing a no encryption mode as taught by Kelem in order to modify the keys to provide a high level of security (Kelem, Col. 2, lines 10-14).

Regarding claim 10, Lewis-Jordan combination discloses the key synchronization system according to claim 8 but does not specifically disclose wherein said at least one access point is capable of setting the old encryption key to a null value, said null value representing a no encryption mode.

However, Kelem discloses if decryption is not desired, a decryption key value of 0 is chosen (Col. 4, lines 18-20). By disclosing setting a decryption key to a null value or 0 when no decryption is desired, Kelem also makes it obvious to set an encryption key to a null value when no encryption is desired.

Kelem, Jordan, and Lewis are analogous art because they are in the same field of endeavor of encryption and/or decryption key protection.

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the invention of Lewis-Jordan by setting the old encryption key at the access point to a null value which represents a no encryption mode as taught by Kelem in order to modify the key thereby providing a high level of security (Kelem, Col. 2, lines 10-14).

Regarding <u>claim 11</u>, Lewis-Jordan combination discloses the key synchronization system according to claim 8 but does not specifically disclose wherein said at least one access point is capable of setting the new encryption key to a null value, said null value representing a no encryption mode.

However, Kelem discloses if decryption is not desired, a decryption key value of 0 is chosen (Col. 4, lines 18-20). By disclosing setting a decryption key to a null value

or 0 when no decryption is desired, Kelem also makes it obvious to set an encryption key to a null value when no encryption is desired.

Kelem, Jordan, and Lewis are analogous art because they are in the same field of endeavor of encryption and/or decryption key protection.

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the invention of Lewis-Jordan by setting the new encryption key at the access point to a null value which represents a no encryption mode as taught by Kelem in order to modify the key thereby providing a high level of security (Kelem, Col. 2, lines 10-14).

Regarding <u>claim 12</u>, Lewis-Jordan combination discloses the key synchronization system according to claim 8 but does not specifically disclose wherein said at least one access point initially sets the old encryption key to a null value.

However, Kelem discloses if decryption is not desired, a decryption key value of 0 is chosen (Col. 4, lines 18-20). By disclosing setting a decryption key to a null value or 0 when no decryption is desired, Kelem also makes it obvious to set an encryption key to a null value when no encryption is desired.

Kelem, Jordan, and Lewis are analogous art because they are in the same field of endeavor of encryption and/or decryption key protection.

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the invention of Lewis- Jordan by setting the old encryption key

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at the access point initially to a null value which represents a no encryption mode as taught by Kelem in order to modify the key thereby providing a high level of security (Kelem, Col. 2, lines 10-14).

Conclusion

11. Examiner cites particular columns and line numbers in the references as applied to the claims for the convenience of the applicant. Although the specified citations are representative of the teachings in the art and are applied to the specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested that, in preparing responses, the applicant fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the examiner.

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to TRONG NGUYEN whose telephone number is (571)270-7312. The examiner can normally be reached on Monday through Thursday 7:30 AM - 5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, NASSER MOAZZAMI can be reached on (571)272-4195. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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/T N/

Examiner, Art Unit 2436

/Eleni A Shiferaw/

Primary Examiner, Art Unit 2436